

Fig. 1A

SUS1	SEQ ID NO: 1	ENGIL <u>RR</u> KWISRFDVWPYL	native
SUS2	SEQ ID NO: 3	ENGIV <u>RR</u> KWISRFEVWPYL	native
SS2	SEQ ID NO: 10	GIV <u>RR</u> KWISRFEVWPYL KK	active
SS11	SEQ ID NO: 11	ILRVFPFRTENGIV <u>RR</u> KWI _(NH2)	inactive
SS12	SEQ ID NO: 12	GIV <u>RR</u> KWISRFEVWPYL _(NH2)	active
SS15	SEQ ID NO: 13	GIV <u>RR</u> KAISRFEVAPYL _(NH2)	less active
SS16	SEQ ID NO: 14	SRFEVWPYL _(NH2)	less active
SP3	SEQ ID NO: 18	^N <u>RR</u> ISSVE ^N ^N <u>DKK</u> _(NH2)	inactive
NR11	SEQ ID NO: 15	GPTL <u>KK</u> RTASTAFMNTTS KK	inactive
SP26	SEQ ID NO: 16	GRM <u>RR</u> IATVEMM KK	inactive
SS1	SEQ ID NO: 9	GDRVLSRLHSVRERIGK	inactive
ACTIN	SEQ ID NO: 19	EHGIVTNWDDMEKIWHHTFY	consensus

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Double basic cluster: black box; e.g. **KK**

Possible region of specificity: underlined or boxed

Substitutions: bold

Fig. 1B

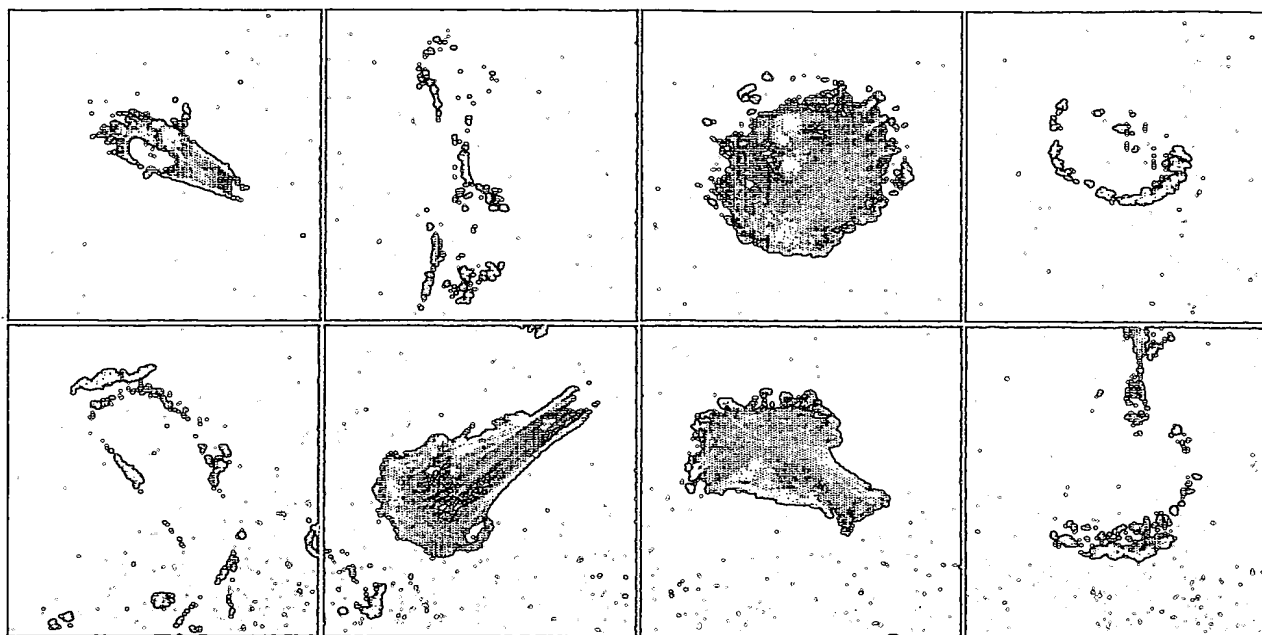
EN	GIVRK	WI	SRFEVW	PYL	KK
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X_4	X_3	X_2	X_1	X_5	X_6
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SEQ ID NO.		SEQUENCE
SEQ ID NO:22	X_1	SRFEVW
SEQ ID NO:17	X_2-X_1	WISRFEVW
SEQ ID NO:14	X_1-X_5	SRFEVWPYL
SEQ ID NO:23	$X_2-X_1-X_5$	WISRFEVWPYL
SEQ ID NO:12	$X_2-X_1-X_5$	GIVRKWISRFEVWPYL
SEQ ID NO:10	$X_3-X_2-X_1-X_5$	GIVRKWISRFEVWPYLKK
SEQ ID NO:24	$X_4-X_3-X_2-X_1-X_5-X_6$	ENGIVRKWISRFEVWPYLKK

Fig. 2

A



B

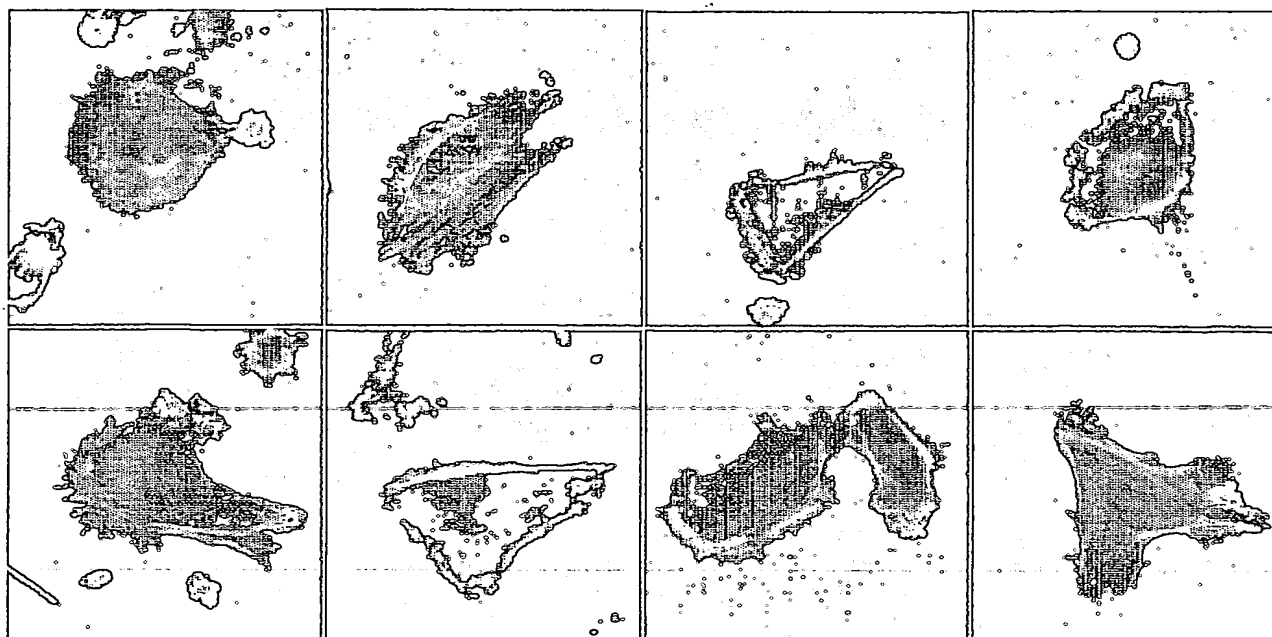


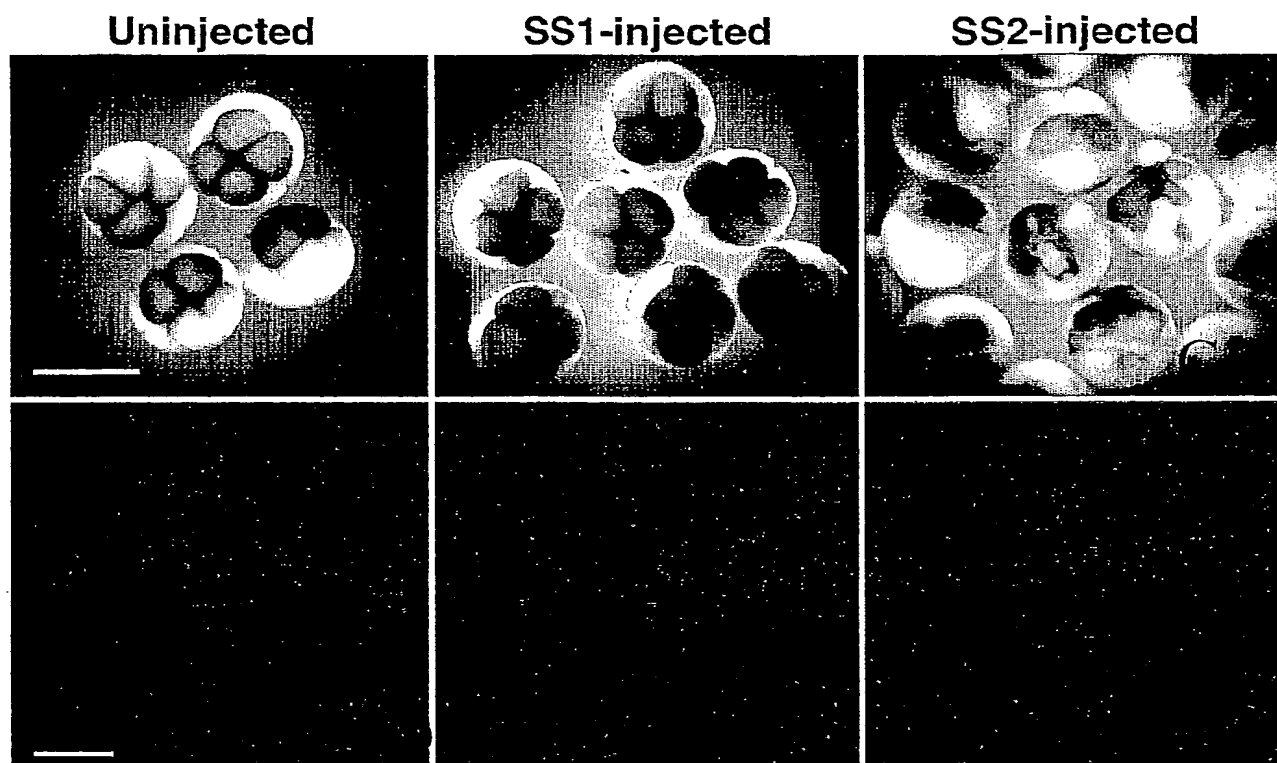
Fig. 3

Fig. 4

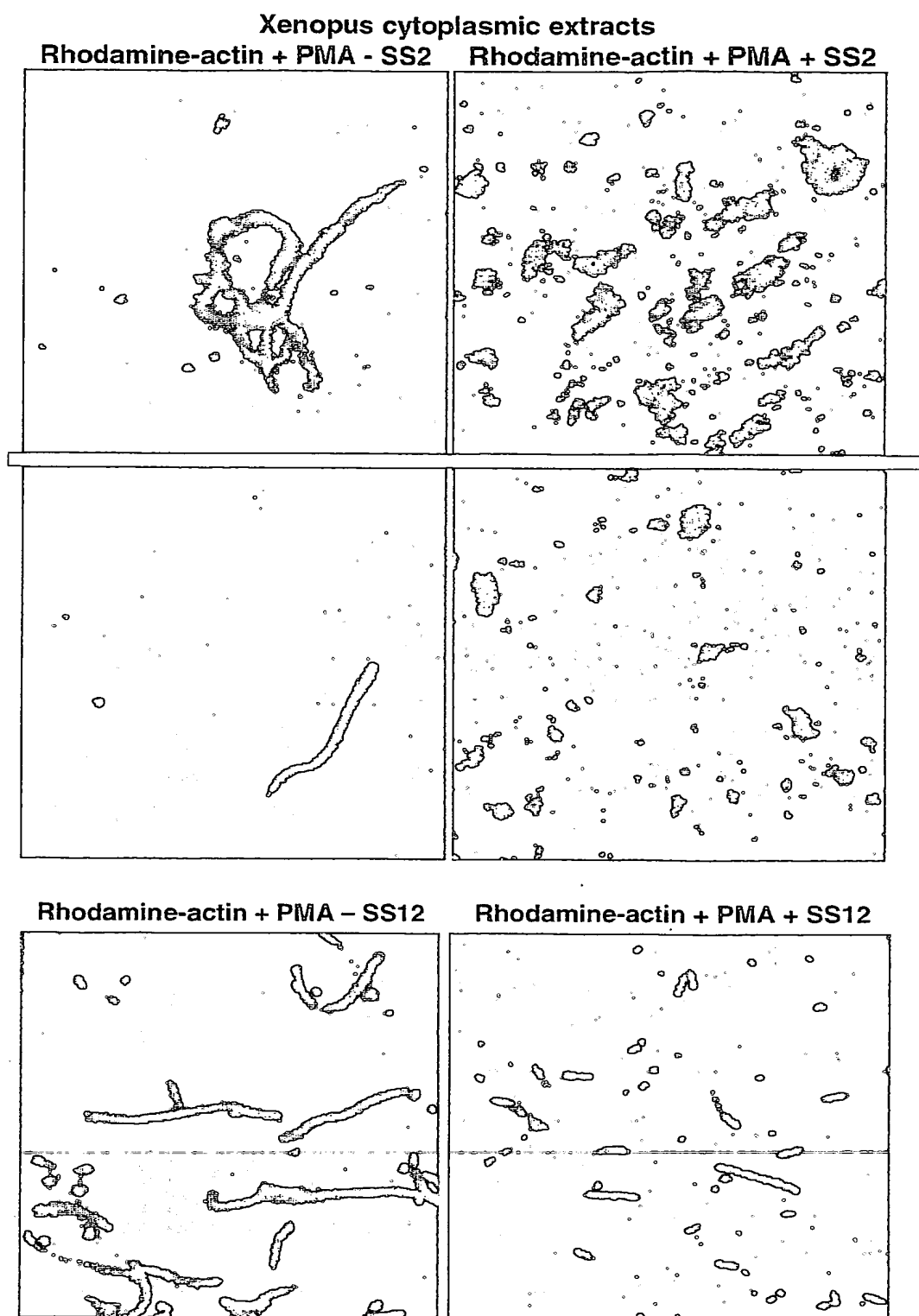


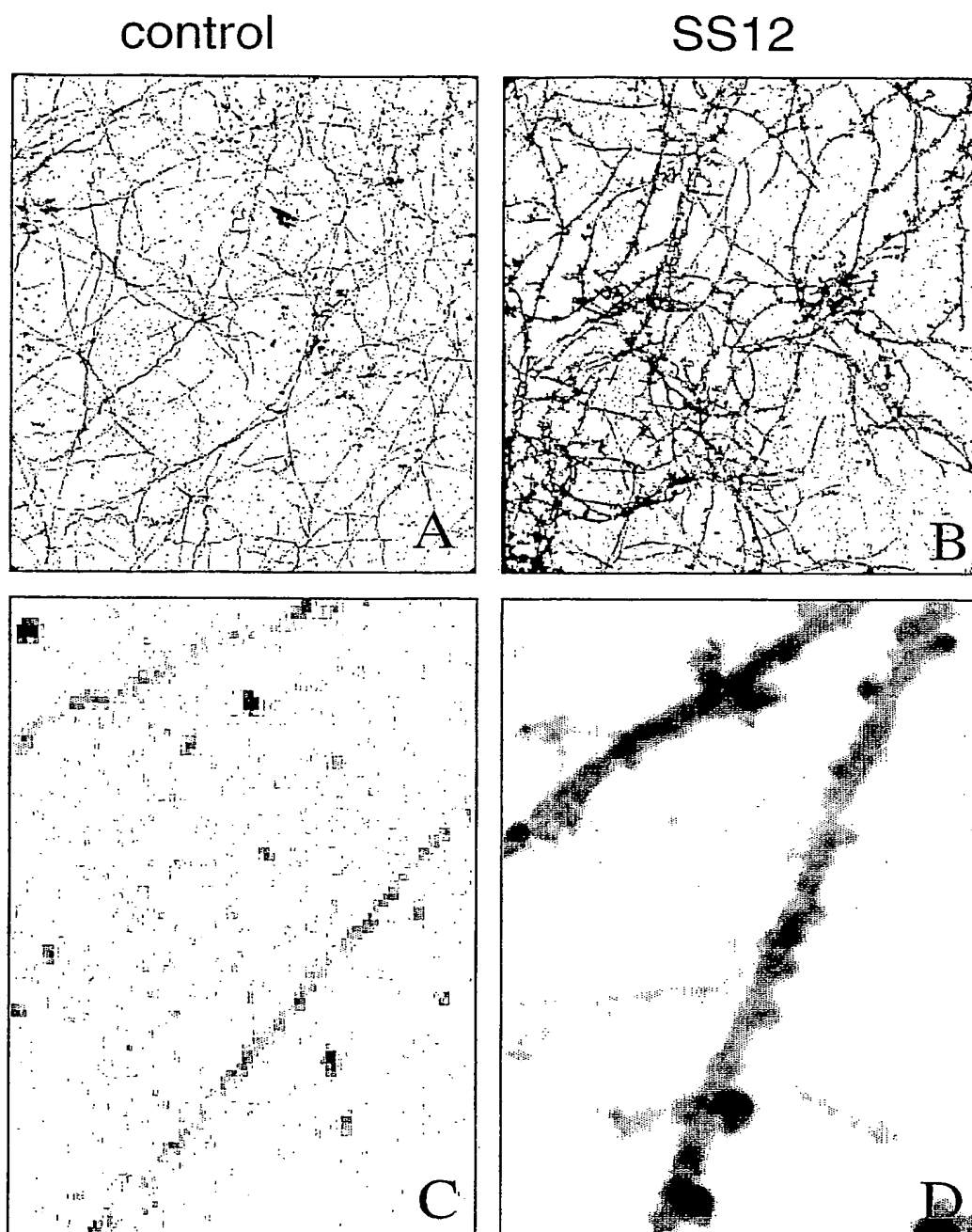
Fig. 5

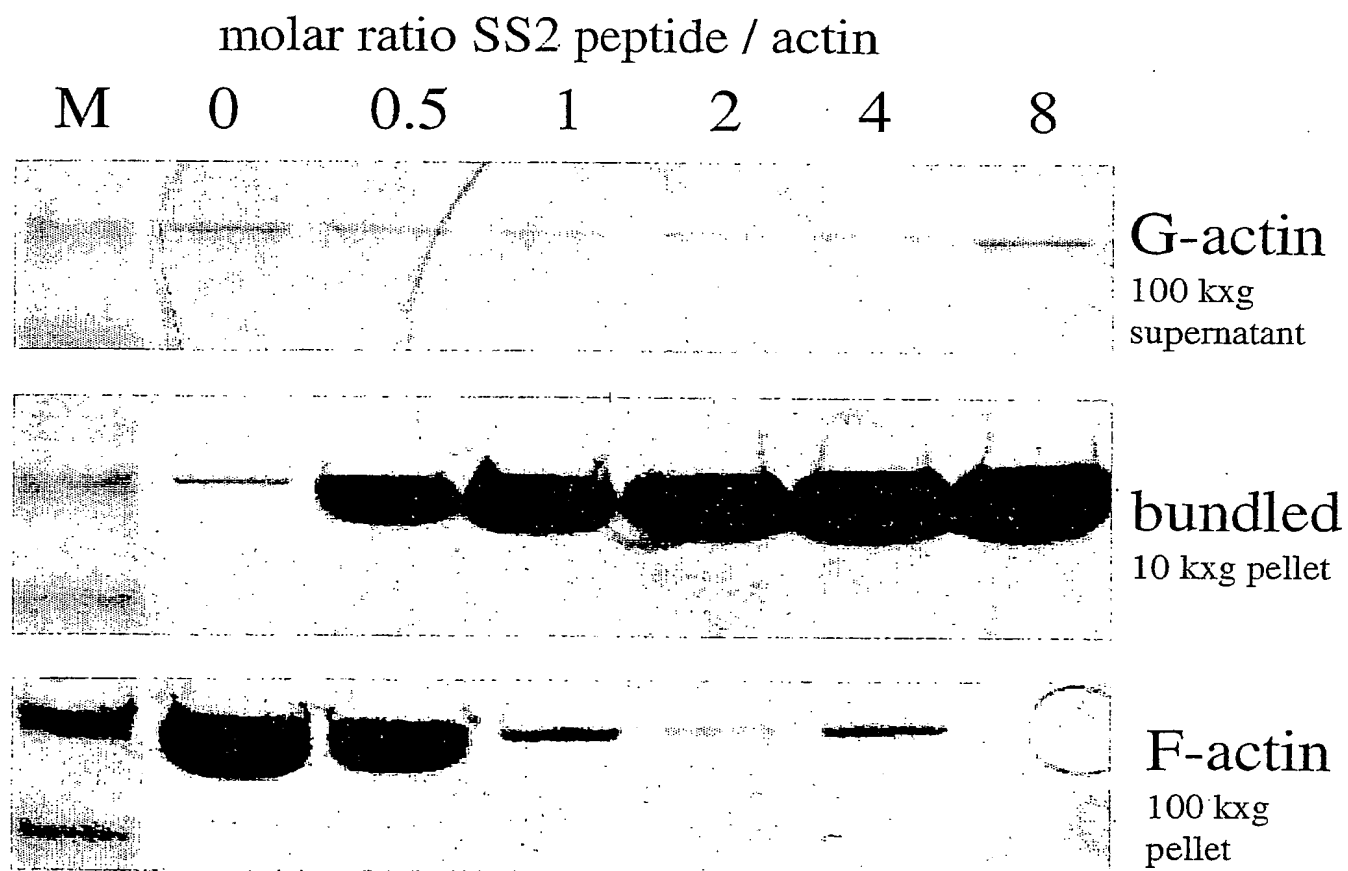
Fig. 6A

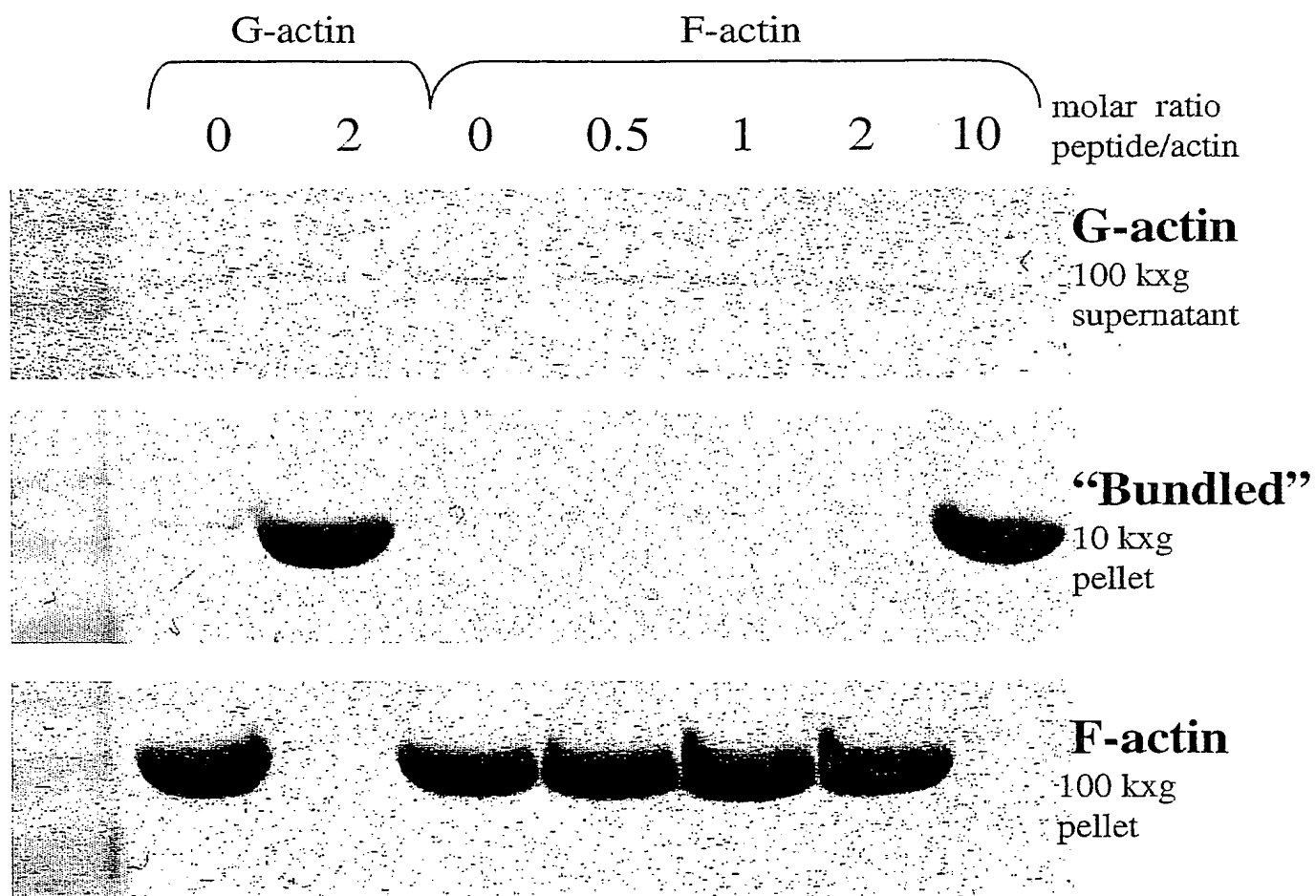
Fig. 6B**Effect of SS2 on polymerized
F-actin in vitro**

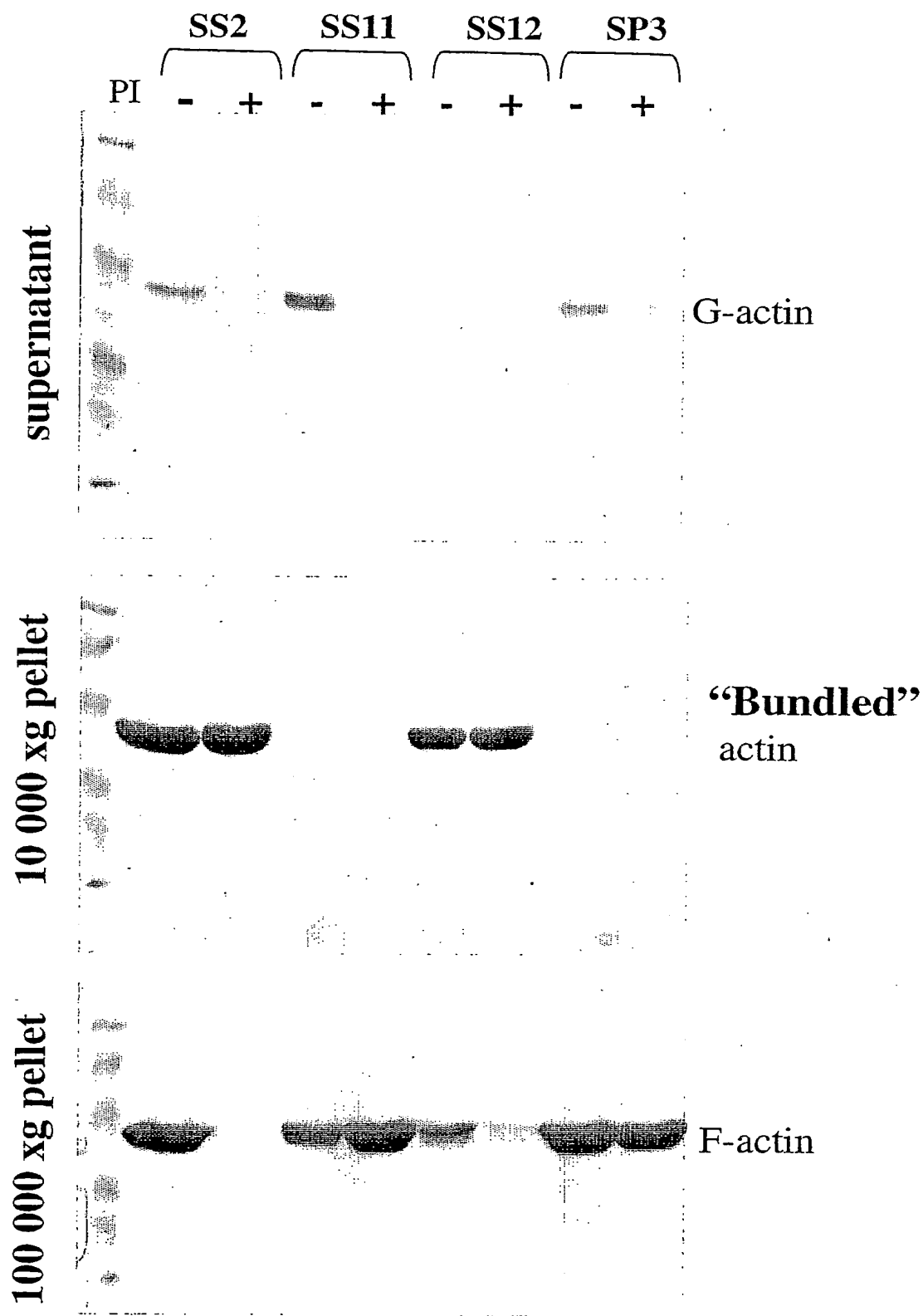
Fig. 6C

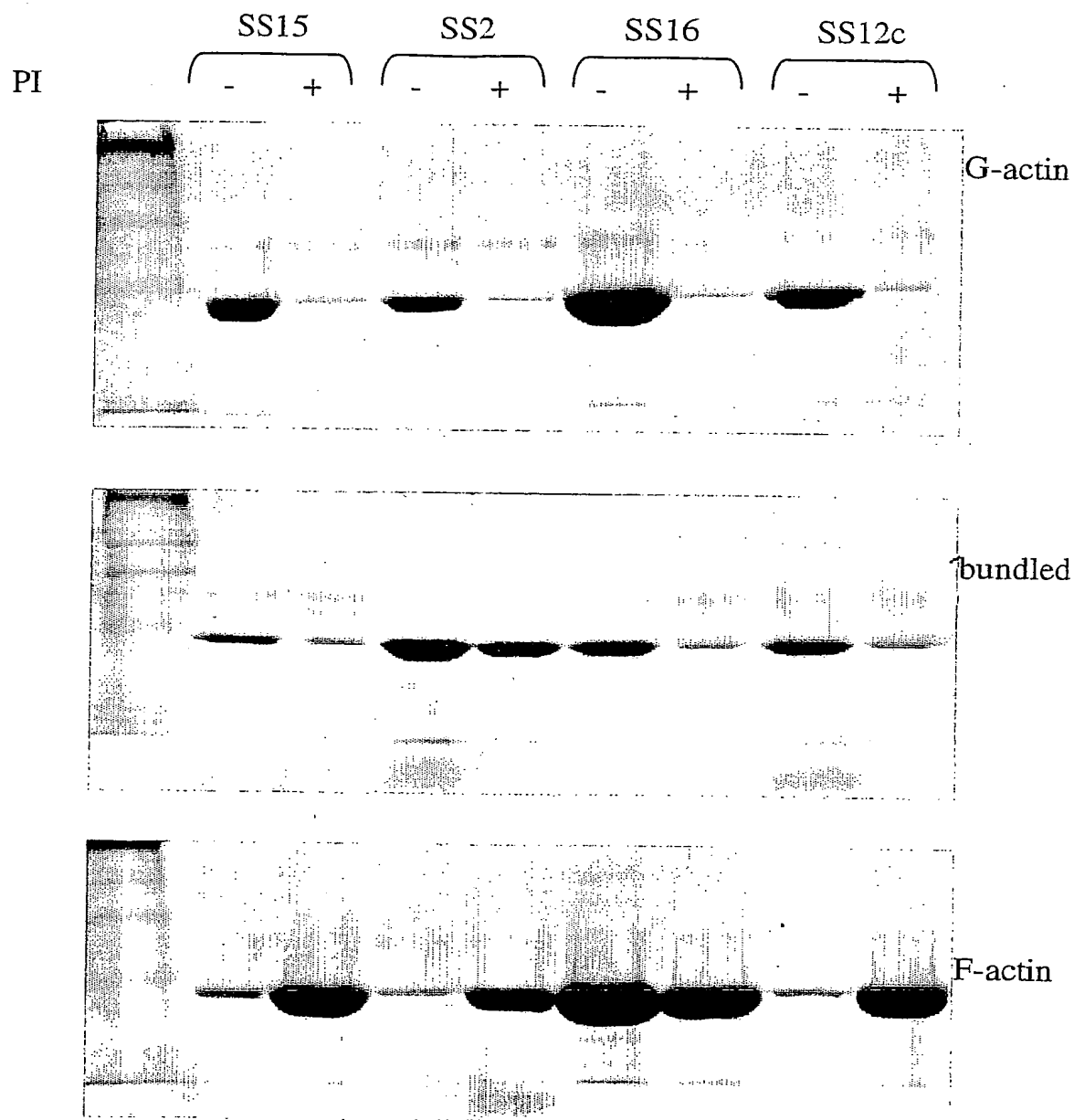
Fig. 6D

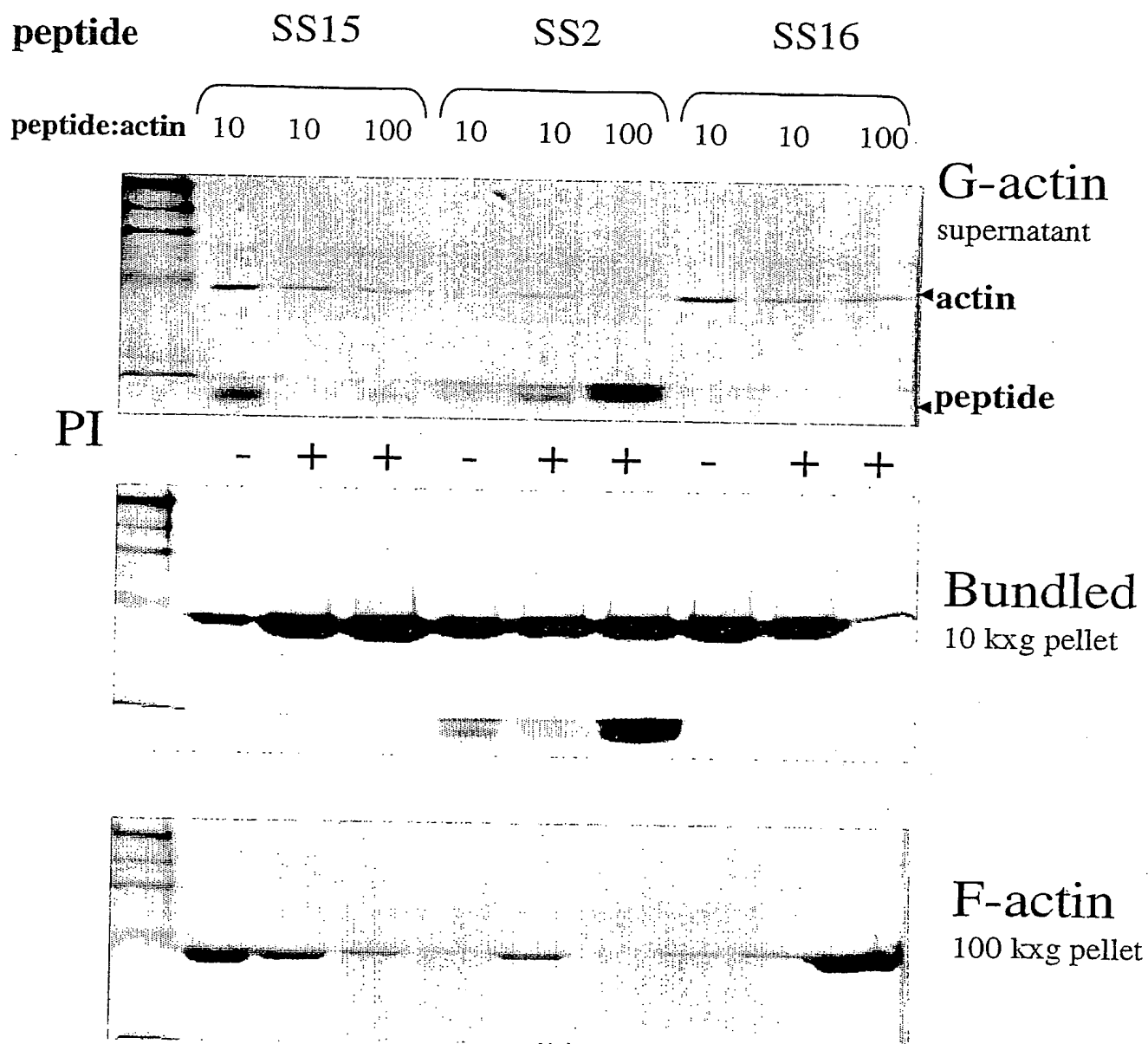
Fig. 6E

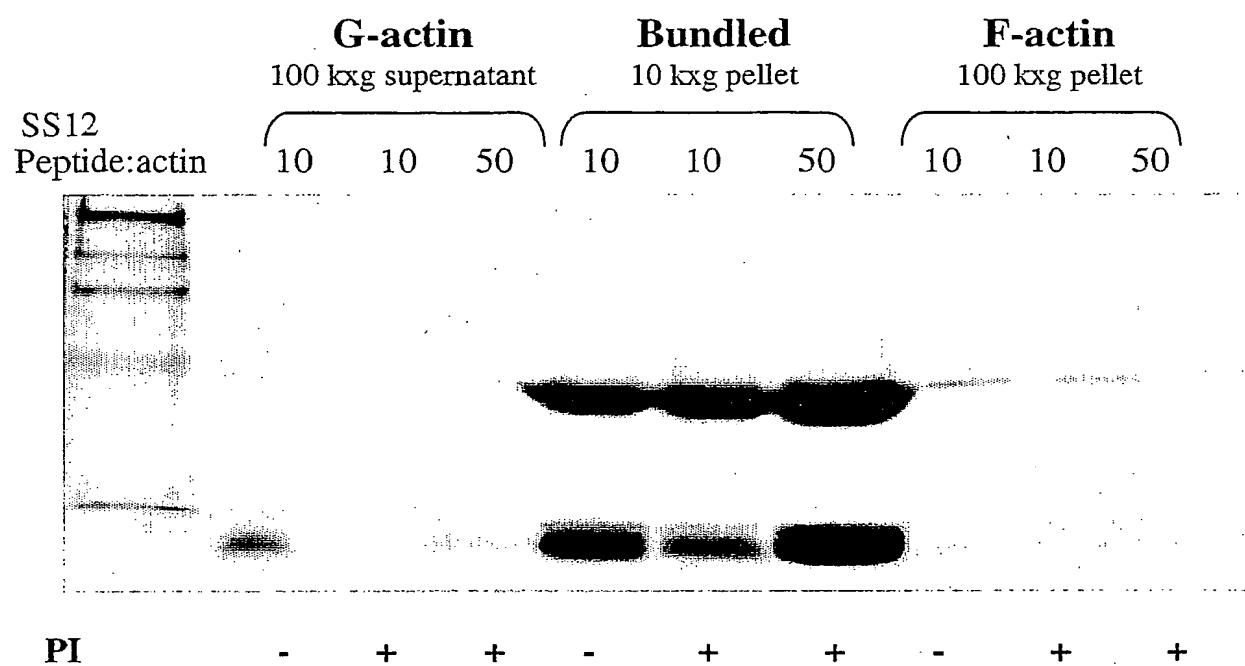
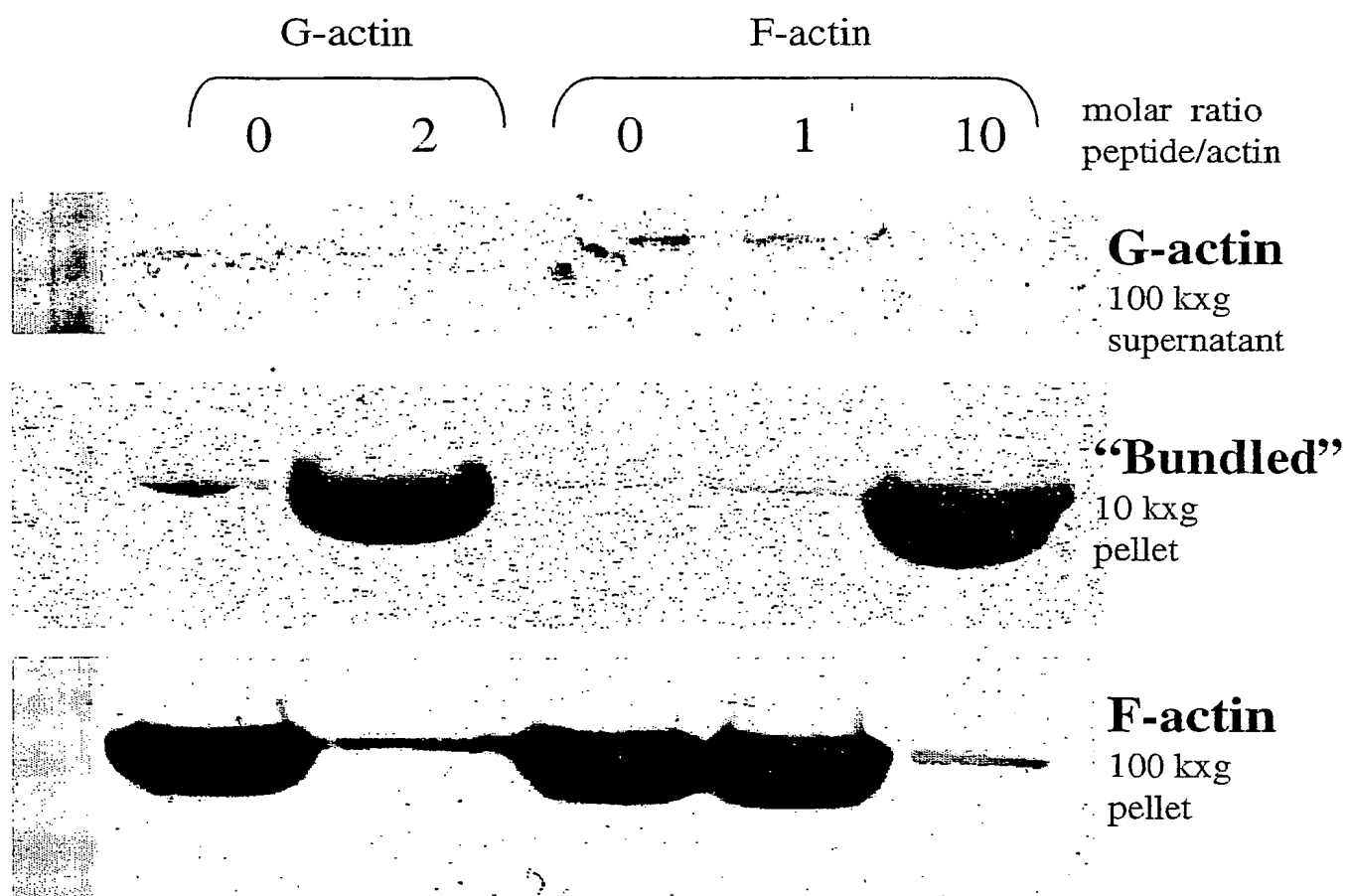
Fig. 6F

Fig. 7

SS2 bundling activity is not affected
by phalloidin



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